

Metallurgy, Study of Metals (Cont.)

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AVAILABLE: Library of Congress

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ZITTO, N. L.

18(0) PHASE I BOOK INFORMATION 307/1728

Akademiya nauk SSSR. Institut metallurgii  
Sovremennyye problemy metallurgii (Modern Problems in Metallurgy)  
Moscow, Izdatel' AN SSSR, 1956. 640 p. 3,000 copies printed.  
Reep, Ed.: A.M. Kuznetsov, Corresponding Member, USSR Academy of  
Sciences; Eds. of Publishing House: V.S. Kabanovskiy, and  
A.M. Buzov; Tech. Ed.: T.V. Polyukhina.

PURPOSE: This book is intended for scientific and technical per-  
sonnel in the field of metallurgy.

CONTENTS: This is a collection of articles on certain aspects of  
Soviet metallurgy. The book is dedicated to Academician  
Ivan Pavlovich Bardin on the occasion of his 70th birthday. The  
book is divided into seven parts. The first part consists of  
two articles presenting a general survey of the history and  
present state of metallurgy in the Soviet Union. It includes an  
article by John Chalmers, Nicholas Grant, and John Elliott (M.I.T.,  
USA), describing their meeting with Bardin in Moscow and also his  
visit to the United States. The second part consists of three  
articles and deals with new materials and fuels for the Soviet  
metallurgical industry. The third part represents the major  
portion of the book. It consists of 25 articles dealing with  
the various aspects of the metallurgy of pig iron and steel.  
The fourth part consists of two articles treating the metall-  
urgy of nonferrous metals. The fifth part consists of three  
articles on the refining of metals. The sixth part consists of  
eight articles discussing certain aspects of physical metall-  
urgy. The last part deals with general problems in the field  
of metallurgy. References are given after each article. No  
personalities are mentioned.

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Modern Problems in Metallurgy

307/1728  
Kuznetsov, A.V. (Candidate of Geological and Mineral Sciences),  
A.A. Sokolov, and M.L. Zhilo (Candidates of Technical  
Sciences), and I.I. Gulyayev/Junior Scientific Assistant,  
Metallurgical Institute imeni A.A. Baykov, AS USSR. Effect  
of Alloys on Phase Composition and Viscosity of Primary  
Cast Furnace Slags

136

Kaliber, I.S., I.M. Kabanovskiy, and I.M. Taylor (Metal-  
lurgical Institute imeni A.A. Baykov, AS USSR). Equilibrium  
Distribution of Sulfur Between Pig Iron and Blast Furnace  
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149

Kuznetsov, A.M. (Doctor, Engineer, Corresponding Member of the  
USSR Academy of Sciences, Berlin). Some Problems  
in Ferrous Metallurgy in the GDR (German Democratic  
Republic)

153

Kuznetsov, I.P., and G. van der Vliet (Institute of Ferrous  
Metallurgy of the Freiberg Academy of Mining). The Problem  
of Metallurgical Processes in Low-shaft Furnaces

159

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"APPROVED FOR RELEASE: 07/19/2001

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24-6-7/24

AUTHORS: Zhilo, N. L., Rudneva, A.V. and Sokolov, G.A. (Moscow).

TITLE: A comparison of the physico-chemical properties of primary slags in blast furnaces with their mineralogical composition. (Sopostavleniye fiziko-khimicheskikh svoystv pervichnykh domennykh shlakov s ikh mineralogicheskim sostavom).

PERIODICAL: "Izvestiya Akademii Nauk, Otdeleniye Tekhnicheskikh Nauk" (Bulletin of the Ac. Sc., Technical Sciences Section), 1957, No.6, pp.37-42 (U.S.S.R.)

ABSTRACT: In this paper data are given on the phase composition and a comparison is made of the real and the specified mineralogical composition of primary blast furnace slags of cast and open hearth pig iron with their physical properties. The aim of the here described investigations was to establish the reason for the differing behaviour of  $K_2O$  in acidic and basic slags in blast furnaces. The results of investigation of the viscosity of the studied slags were described in detail in earlier work of these authors "On investigating the viscosity of primary blast furnace slags" (same journal, 1957, No.2, pp.27-35). A comparison of viscosity, temperature of crystallisation, and the phase composition of primary slags in blast furnaces has led to a clarification of the adverse effect of alkalis on the physical properties of basic slags

Card 1/2



24-6-7/24

A comparison of the physico-chemical properties of primary slags in blast furnaces with their mineralogical composition. (Cont.)

in blast furnaces. The latter is explained by the formation, in the molten slag, of high temperature alkali aluminium silicates having a volume skeleton structure of anion complexes (of the type of  $K_2O \cdot Al_2O_3 \cdot 2SiO_2$ ). The alkali aluminium silicates and alkali silicates which are formed in acidic slags have lower melting points (750 C for calcium silicates; 1170 C for orthoclase). This explains the decrease in viscosity and temperature of crystallisation when alkalis are added to acidic blast furnace slags. The formation of fusible alkali silicates, dissociating at low temperatures, can explain the decrease in viscosity and temperature of crystallisation of both acidic and basic slags in blast furnaces, in the absence of alumina. The characteristic mineralogical combinations of the real phase state of the slags, in the range which is optimal from the point of view of easy fusibility and high fluidity, indicate that these are near to the eutectic range of the studied multi-component system. There are 7 figures, 1 table and 2 Slavic references.

SUBMITTED: July 28, 1956.

AVAILABLE:

RUDNEVA, A.V.; ZHILO, N.L.; GUL'TYAY, I.I.; SOKOLOV, G.A.

Viscosity and the mineralogical composition of slags of the  
system  $K_2O - CaO - Al_2O_3 - SiO_2$  with additions of  $MnO$ .

Trudy Inst. met. no.8:11-29 '61.

(MIRA 14:10)

(Slag--Analysis)

(Phase rule and equilibrium)

(Viscosimetry)

ZHILO, N.L.; BOL'SHAKOVA, L.I.

Effect of replacing lime by magnesia on the physical properties  
of blast furnace slags. Izv. vys. ucheb. zav.; chern. met. 7  
no.8:25-27 '64. (MIRA 17:9)

1. Chelyabinskiy nauchno-issledovatel'skiy institut metallurgii.

SULEYMANOV, D.M.; ZHILO, P.V.

On the problem of contemporary movements in the earth's crust in the Caspian Sea region. Dokl. AN Azerb.SSR 10 no.4:271-277 '54.

(MLRA 8:4)

1. Institut geologii im. akad. I.M.Gubkina Akademii nauk Azerbaydzhanskoy SSR. Predstavleno deystvitel'nym chlenom Akademii nauk Azerbaydzhanskoy SSR M.A.Kashkayem.

(Caspian Sea region--Earth movements)

ZHILO, P.V.

Irrigation of the Salyany Steppe [in Azerbaijani with summary in Russian]. Izv. AN Azerb. SSR no.12:117-124 D '57. (MIRA 11:2)  
(Salyany Steppe--Irrigation)

SULEYMANOV, D.M.; ZHILO, P.V.

Problem of the formation of the coast line of the western shore of  
the Caspian Sea within the limits of the Baku Archipelago. Uch.zap.  
AGU no.3:59-65 ' 58. (MIRA 12:1)  
(Baku region--Shore lines)

V  
ZHILLO, P.B.

Use of water discharged from the Caspian Sea into the Kara-Bogaz-Gol.  
Izv. AN Azerb. SSR. Ser. geol.-geog. nauk no.3:115-122 '58.

(MIRA 11:12)

(Caspian Sea)

GYUL', K.K.; ZHILO, P.V.; GUSEYNOV, A.G.

Effect of the Caspian Sea level fluctuations on the shipping in  
the Azerbaijan S.S.R. Izv. AN Azerb. SSR. Ser. geol.-geog. nauk  
no.4:127-133 '59. (MIRA 13:1)  
(Caspian Sea--Hydrography)



ZHILO, P.V.

Geographical distribution of principal resources of natural sodium sulfates in the U.S.S.R. and importance of the Caspian sulfate region. Izv.AN Azerb.SSR. Ser.geol.-geog.nauk no.6: 133-141 '59. (MIRA 15:4)

(Sodium sulfates)

ZHILO, P.V.

Names of the Caspian Sea. Izv. AN Azerb. SSR. Ser. geol.-geog.  
nauk no.4:93-99 '60. (MIRA 14:1)  
(Caspian Sea--Names, Geographical)

ZHILO, P.V.; IZYUMSKIY, O.A.; KOSAREV, A.N.

Ways of developing the natural resources of the eastern shore of  
the Caspian Sea. Geog. i khoz, no.9:38-40 '61. (MIRA 14:11)  
(Caspian Sea region--Natural resources)

ZHILO, P.V.

On the problem of the optimum level of the Caspian Sea.

Vop. geog. no. 57:84-88 '62.

(MIRA 15:10)

(Caspian Sea)

ZHILO, P.V.

Effect of the lowering level of the Caspian Sea on the economy  
of the Azerbaijan S.S.R. Trudy Okean. kom. 5:340-345 '59.  
(MIRA 13:6)  
(Caspian Sea--Hydrography) (Azerbaijan--Industries)

SAKHAROV, M.D.; ZHILONOV, V.G.

Mechanization and automation of production processes in the  
woodworking enterprises. Biul. tekhn.-ekon. inform. Gos. nauch.-  
issl. inst. nauch. i tekhn. inform. 17 no.2:50-53 '64.

(MIRA 17:6)

SAKHAROV, M.D.; ZHILONOV, V.G.

Use of synthetic materials in the woodworking industry. Biol. tekhn.-  
ekon. inform. Gos. nauch.-issl. inst. nauch. i tekhn. inform. 17 no.8:  
66-69 Ag '64. (MIRA 17:11)

ZHILOV, D.S. with Fedotov

Lab of the Physiology of Digestion of Farm Animals, All-U Inst Animal Husbandry im. Lenin

Secretory activity of the submaxillary glands of horses.

So: Fiziologicheskiy Zhurnal Vol 27, No 1, 1939



DANTSIS, Ya.B., kand.tekhn.nauk; ZHILOV, G.M., inzh.; LYADSKIY, N.K., inzh.;  
YUDOVICH, Ye.Ye., inzh.

Electrical engineering problems in the manufacture of calcium carbide.  
Elektrotehnika 34 no.12:6-9 D '63. (MIRA 17:1)

DANTSIS, Ya.B., kand.tekhn.nauk (Leningrad); ZHILOV, G.M., inzh.  
(Leningrad)

Diagram for connecting a short network of an electric  
furnace system to a delta at the electrodes. Elektrichestvo  
no.9:20-23 S '62. (MIRA 15:9)  
(Electric furnaces) (Electric networks)

BREYDO, A.I.; ZHILOV, G.M.

Experience with automatic operation of automatic block system feeding points. Avtom., telem. i sviaz' no.12:22-25 D '57. (MIRA 10:12)

1. Zamestitel' nachal'nika Leningrad-Vitebskoy distantii signalizatsii i svyazi Oktyabr'skoy dorogi (for Breydo). 2. Starchiy inzhener Dorproyekta (for Zhilov).

(Railroads--Signaling--Block system)

DANTSIS, Ya.B.; ZHILOV, G.M.

Control of the operation of electric furnaces. From. energ. 15  
no.9:35-36 S '60. (MIRA 13:10)  
(Electric transformers) (Electric furnaces)

DANTSIS, Ya.B., kand.tekhn.nauk; ZHILOV, G.M.; KUNKS, E.I., inzh.

Current distribution in the flexible conductors of large ore-  
smelting furnaces. Vest.elektroprom. 32 no.2:58-64 P '61.  
(MIRA 15:5)

(Electric furnaces)

DANTSIS, Ya.B., kand.tekhn.nauk; ZHILOV, G.M.

Equalizing of the phase currents of ore smelting furnaces.  
Prom.energ. 17 no.10:29-32 0 '62. (MIRA 15:9)  
(Electric furnaces)

ZHILOV, G.M., inzh.; PARSHINA, G.A., inzh.; RAKHMANOV, Ye.K., inzh.;  
TUROV, Yu.Ya., kand. ekonom. nauk

Use of longitudinal-capacitive compensation in ore smelt  
furnaces. Prom. energ. 19 no.8:33-37 Ag '64.

(MIRA 17:11)

ZHILOV, I.I., master (g. Donetsk)

Defects of gas relays. Energetik 14 no.1:35-36 Ja '66.  
(MIRA 19:1)



YELISEYEV, Vladimir Fedorovich; ZHILOV, Ivan Ivanovich; KATAYEV,  
Afanasiy Filippovich; PELEVINA, Irina Osipovna; SHUGAN, Viktor  
Ustinovich, kand. ekon. nauk, dots., red.; BILENKO, L.S., red.  
izd-va; SOTNIKOVA, N.F., tekhn. red.

[The economics and planning of Soviet cooperative trade] Ekonomika  
i planirovanie sovetskoi kooperativnoi trgovli. [By] V.F. Eliseev  
i dr. Moskva, Izd-vo TSentrsoiuz, 1962. 354 p. (MIRA 16:3)  
(Cooperative societies)

LEBEDEV, Nikolay Nikolayevich; FRIDMAN, Abel' Mendelevich; ZHILOV, I.I., red.; LIFEROVA, A.I., red. izd-va; KOZLENKOVA, Ye.I., tekhn. red.

[Collection of problems on the economics and planning of the Soviet cooperative trade] Zadachnik po ekonomike i planirovaniyu sovetskoi kooperativnoi trgovli. Moskva, Izd-vo Tsentrosoiuza, 1962. 190 p. (MIRA 15:9)  
(Retail trade)

TSYGANKOV, G.M., prof.; ZHILOV, M.S.; EYDINOV, Ya.B., kand.med. nauk  
(Leningrad)

Results of the prevention of a myocardial infarct and thrombo-  
embolic diseases in Leningrad. Klin. med. 40 no.11:44-51 N°62  
(MIRA 16:12)

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ZHILOV, N.V.

Apparatus for ether anesthetization. Vest.khir.Grekova 70 no.5:  
52-53 1950. (CIME 20:5)

1. Of the Surgical Division of Nyandoma Railroad Hospital, Arkhangel'skaya Oblast'.

ZHILOV, N.V.

Benign tumors of the round ligament of the uterus. Akush. i gin. no.1:  
68-69 Ja-F '54. (MLRA 7:6)

1. Iz khirurgicheskogo otdeleniya (nachal'nik N.V.Zhilov) shelesnodorozhnoy  
bol'nitsy st. Karaganda-Sortirovochnaya.  
(Uterus--Tumors)

ZHILOV, N.V. (Agadyr, Karagandinskoy zhel.dor., d.6)

Spatula with spoon at top and bottom for opening and suturing the peritoneum and for protection of the intestines. Vest. khir. 80 no.2:125 F '58. (MIRA 11:3)

1. Iz akushersko-ginekologicheskogo otdeleniya (zav.-N.V.Zhilov) Agadyrskoy zheleznodorozhnoy bol'nitsy.

(ABDOMEN, surg.

laparotomy, spatula with spoon at top & bottom for opening & suturing peritoneum & protection of intestines (Bus)



ZHILOV, S.

Production of dried milk consisting of solid particles. Moloch.  
prom. 17 no.6:36-37 '56. (MLRA 9:10)

1. Leningradskiy tekhnologicheskoy institut kholodil'noy  
promyshlennosti.

(Milk, Dried)

ZHILOV, S.N., dotsent, kand.tekhn.nauk

Deformation of solution particles in spray drying. Trudy  
LTIKHP 13:107-113 '57. (MIRA 13:6)

1. Kafedra promyshlennoy teplotekhniki Leningradskogo  
tekhnologicheskogo instituta khologil'noy promyshlennosti.  
(Milk, Dried)

ZHILOV, S. N.

"Investigating the Air Drying of Milk Droplets as Applied to a Study of the Spray Drying of Milk." Cand Tech Sci, Leningrad Technological Inst of the Refrigeration Industry, Leningrad, 1954. (RZhKhim, No 23, Dec 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12)

SO: Sum. No. 556, 24 Jun 55

KRUPIN, G.V.; BELYAYEV, I.T.; LAPSHIN, A.A.; GORDEYEV, M.I.; MAR'YANOVSKIY, I.M.; PAVLOV, B.V.; ZHILOV, S.N.; TSYPKIN, S.I.; ANDREYEV, N.N.; KAZIMIROVA, V.P.; KURANOVA, I.L.; PIGULEVSKIY, G.V.

Annotations of the scientific research work performed at the institute in 1957. Trudy LTIKHP 15:213-227 '58.

(MIRA 13:4)

1. Leningradskiy tekhnologicheskii institut kholodil'noy promyshlennosti.
  2. Kafedra tekhnologicheskogo oborudovaniya pishchevykh proizvodstv (for Krupin, Lapshin, Pavlov).
  3. Kafedra ekonomiki i organizatsii proizvodstva (for Belyayev).
  4. Kafedra detaley mashin i pod'yemno-transportnykh mashin (for Gordeyev).
  5. Kafedra grafiki (for Mar'yanovskiy).
  6. Kafedra promyshlannoy teplotekhniki (for Zhilov).
  7. Kafedra fiziki (for TSypkin).
  8. Kafedra fizicheskoy kolloidnoy i organicheskoy khimii (for Andreyev, Kazimirova, Kuranova, Pigulevskiy).
- (Refrigeration and refrigerating machinery)  
(Chemistry, Technical)

ZHILOV, Ye. H.

**AUTHOR:** POTKOV, L.L. PA - 2503  
**TITLE:** Scientific Meetings and Conferences. (Nauchnye sessii konferentsii soveshchaniya, Russian)  
**PERIODICAL:** Vestnik Akademii Nauk SSSR, 1957, Vol 27, Nr 2, pp 102 - 106 (U.S.S.R.)  
Received: 5 / 1957 Reviewed: 6 / 1957  
**ABSTRACT:** From October 29th to 31st a conference was held in Kiev of the Scientific Council of the Department for Chemistry of the Academy of Science of the U.S.S.R., of the Department for Chemical and Geological Sciences of the Academy of Science of the Ukrainian SSR and the Kiev Department of the Soviet Chemical Society on problems of stereochemistry of chemical reactions.  
A.A.Nesmeyanov read a paper on his own behalf as well as on the behalf of A.E.Borisov on the stereochemistry of olefinic hydrocarbon compounds. The paper contained the results of investigations of stereometric and metalorganic compounds of the ethylene series. These investigations enabled the authors to deduce a law, according to which homolytic replacements of olefinic carbon atoms occur in such a way, that the geometrical configuration remains unchanged.  
This theorem was examined on the basis of the organic compounds of Sb, Li, Tl. On this occasion the investigation considered not only compounds originating from the active force of non-metallic halides, for example  $HgCl_2SbCl_5$ , but also acetous metal compounds.

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## Scientific Meetings and Conferences.

PA - 2503

The reviewer checked the work of the American authors I. Braude, Dreiding, Kurtin, Jonson, Steiner. The discussion group (E.A. Zhilov, M.I. Kabachnik) emphasized the importance of the theorem on the perseveration of the configuration in olefines in the case of atomic changes or changes of atom groups respectively, if double combination is considered.

The reviewer Zhilov made a report on the mechanism of the Cis-compound. He underlined that markedly polar reactions occur as a condition for the formation of Cis-compounds.

M.I. Kabachnik read a paper on the tautomeric properties of cis- and trans-states on his own behalf and on the behalf of S.T. Joffe and K.V. Vatsuro. Investigations of the dependence of the constants of the tautomeric equilibrium of ketoenoles showed, that these ketoenoles form cis-enoles. It was determined that the enolisation of trans fixed enoles is independent of the nature of the solvent. Their enolisation corresponds to the general formula. With the help of these ascertainments, the contents of the two stereometric forms in the solution can be calculated.

E.A. Zhilov pointed to the fact that on the occasion of studying the stereochemistry of the acetylene compounds the fact must be considered, that acetylene in its active state either constitutes a trans-state or in the case of greater efficiency a cis-state,

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Scientific Meetings and Conferences.

PA - 2503

which circumstance causes the formation of different ethylene branches.

Investigations in the field of cinetics (M.B.Neumann) and stereochemistry may be very helpful in the utilisation of high pressures.

The formation of trans-compounds was discussed by L.D.Bergelson, who maintained, that their formation is explained primarily by the geometry of molecules, not by the character of the reaction, as was imagined by E.A.Zhilov.

A.P.Terentiev reported on the problem of absolute asymmetric synthesis. During 1929 - 1930 optical active substances were obtained with the help of circular polarized light from the reactions of bromide and propionic acid.

Moreover, numerous other lectures were held, which cannot be dealt with in detail here.

ASSOCIATION: Not given  
PRESENTED BY:  
SUBMITTED:  
AVAILABLE: Library of Congress.

Card 3/3

TIMOKHIN, D.I.; ZHILOV, Yu.D.

Labor hygiene problems in connection with new removal and  
tunneling machinery in mines of the Moscow Coal Basin.

Uch.zap.Mosk.nauch.-issl.inst.san.i gig.no.8:16-21'61.

(MIRA 16:7)

(MINING MACHINERY--HYGIENE ASPECTS) (MOSCOW BASIN--COAL MINES AND MINING)



ZHILOV, Yu.D.

Once more concerning the effective (normalized) units. Vop.kur.,  
fizioter,i lech.fiz.kul't. 28 no.1:82-84 '63. (MIRA 16:4)

1. Iz Moskovskogo instituta sanitarii i gigiyeny imeni F.F.  
Erismana (dir. A.P.Shitskova).

(ULTRAVIOLET RAYS--THERAPEUTIC USE)

ZHILOV, Yu.D., mladshiy nauchnyy sotrudnik

Filter of uviol glass for the mercury-quartz lamp. Gig. i san.  
25 no. 2:94 F '60. (MIRA 13:6)

1. Iz Moskovskogo nauchno-issledovatel'skogo instituta sanitarii  
i gigiyeny imeni F.F. Erismana Ministerstva zdravookhraneniya  
RSFSR.

(ULTRAVIOLET RAYS)

ZHILOV, Yu. D., Candidate Med Sci (diss) -- "On the simultaneous use of ultra-violet and infrared radiation for health purposes". Moscow, 1959. 19 pp (Acad Med Sci USSR), 200 copies (KL, No 23, 1959, 171)

ZHILOV, Yu.D., kand.med.nauk

More about ultraviolet clinics. Svetotekhnika 6 no. 12:20-21  
D '60. (MIRA 14:1)

1. Moskovskiy institut gigiyeny im. F.F. Erismana.  
(Ultraviolet rays--Therapeutic use)

ZHILOV, Yu.D., kand.med.nauk

Change in the phagocytic activity of leucocytes in the blood of  
miners exposed to radiations of erythema-dose ultraviolet lamps.  
Gig.i san. 26 no.11:94-96 N '61. (MIRA 14:11)

1. Iz Moskovskogo nauchno-issledovatel'skogo instituta gigiyeny  
imeni F.F.Erismana Ministerstva zdavookhraneniya RSFSR.  
(LEUCOCYTES) (ULTRAVIOLET RAYS--PHYSIOLOGICAL EFFECT)  
(PHAGOCYTOSIS)

ZHILOV, Yu.D. (Moskva)

Some results of the irradiation of miners with erythemadose  
lamps in phototherapeutic clinics. Gig. truda i prof. zab.  
6 no.5:43-46 My'62. (MIRA 16:8)

1. Moskovskiy institut gigiyeny imeni F.F.Erismana.  
(MINERS—DISEASES AND HYGIENE)  
(ULTRAVIOLET RAYS—THERAPEUTIC USE)

ZHILOV, Yu.D.

Joint irradiation with ultraviolet and infrared rays. Vop.  
kur., fizioter. i lech. fiz. kul't. 27 no.4:363-365 J1-Ag'62  
(MIRA 19:11)

1. Iz Instituta gigiyeny detey i podrostkov AMN SSSR.

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GUR'YEVA, Ye.P.; ZHILOVA, G.P.; KUZNETSOVA, E.Ye.; VASILEVSKAYA, N.I.;  
BOKHNEVICH, G.M.

Methodology for preparing tissue cultures for the laboratory  
diagnosis of poliomyelitis. Trudy Len. inst. epid. i mikrobiol.  
26:213-225 '64. (MIRA 18:12)



KANTOROVICH, R.A.; KURNOSOVA, L.M.; ZHILOVA, G.P.

Study of the immunological structure of the population of Leningrad in relation to the poliomyelitis viruses. Trudy Len.inst. epid.i mikrobiol. 19:131-140 '59. (MIRA 16:2)

1. Iz laboratorii poliomiylita (rukovoditel' Kh.S. Kotlyarova) Leningradakogo instituta epidemiologii, mikrobiologii i gigiyeny imeni Pastera i otdela virusologii Instituta epidemiologii i mikrobiologii AMN SSSR (rukovoditel' - chlen-korrespondent AMN SSSR prof. A.A. Smorodintsev).

(IMMUNOLOGY) (LENINGRAD-POLIOMYELITIS VIRUSES)

SMORODINTSEV, A.A.; DROBYSHEVSKAYA, A.I.; BULYONEV, N.P.; VASIL'YEV, K.G.;  
VOTYAKOV, V.I.; GROYSMAN, G.M.; ZHILOVA, G.P.; IL'YENKO, V.I.;  
KANTOROVICH, R.A.; KURNOSOVA, L.M.; CHALKINA, O.M.

Material on the immunological and epidemiological effectiveness  
of live poliomyelitis vaccine. Vest. AMN SSSR 15 no.6:45-58 '60.  
(MIRA 14:4)

1. Otdel virusologii Instituta eksperimental'noy meditsiny AMN SSSR.  
(POLIOMYELITIS)

LAIOVA  
RUMANIA )

JILOVA, Galina Pavlovna of the Institute of Experimental Medicine  
(Institutul de Medicina Experimentală), Leningrad.

"Immunological Changes in the Blood of Children Inoculated with  
Live Polio Vaccine According to Various Immunization Patterns."

Bucharest, Studii si Cercetari de Inframicrobiologie, Vol 14,  
No 5, 1963, pp 565-575.

Abstract [Author's English summary modified]: A study based on  
5965 seroneutralization reactions with the aid of the Salk color  
test showed that the live vaccine possesses a high efficiency  
regardless of the immunization pattern, as long as all the  
vaccinating strains are inoculated repeatedly.

Includes 5 graphs and 2 tables.

1/1

- 13 -

ZHILOVA, G. P.

1968, 22, 763-773

# Immunological and Epidemiological Effectiveness of Live Poliomyelitis Vaccine in the USSR \*

A. A. SMOLONTSYEV, A. I. PROKOTSEVSKAYA, N. P. BULYCHEV  
O. M. CHALEPINA, O. M. GROSSMAN, V. I. LYENKO, E. A. KANTDAROVICH  
L. M. KURKOVA, K. G. VASYLYEV, V. I. YOTIMAYEV & O. P. ZHILOVA

[illegible]

Bulletin of the World Health Organization, Vol. 23, No. 6, 1960.

Office the Virus Department, Inst. of Experimental Medicine, USSR Acad. Med. Sci.

KANTOROVICH, R.A.; BGANTSEVA, I.V.; ZHILOVA, G.P.; KUZNETSOVA, R.I.;  
OSTROVSKIY, G.D.; RABY, Ye.A.

Comparative study of the epidemiological effectiveness of  
the inoculation with live and killed poliovirus vaccines.  
(1959-1960). Trudy Len. inst. epid. i mikrobiol 26:70-82 '64.  
(MIRA 18:12)

1. Iz laboratorii poliomyelita instituta imeni Pastera, otdela  
virusologii Instituta eksperimental'noy meditsiny AMN SSSR i  
sanitarno-epidemiologicheskikh stantsiy Pskovskoy, Novgorodskoy  
i Leningradskoy oblastey.

ZHEIGVA, G.P.; KANTOROVICH, R.A.

Immunological effectiveness of the vaccination of the child population of Novgorod Province with live poliovirus vaccine. Trudy Len. inst. epid. i mikrobiol 26:83-95 '64.

(MIRA 18:12)

1. Iz otdela virusologii Instituta eksperimental'noy meditsiny AMN SSSR i laboratorii poliomyelita Leningradskogo instituta imeni Pastera.

KORNILOV, D.M.; BLANKA, G.Ya., red.; ZHILOVA, I.I., red.; NOTKINA, V.Ye.,  
red.; MARTSEVICH, Yu., red. izd-va.

[The economics and planning of Soviet cooperative trade]Ekono-  
mika i planirovanie sovetskoi kooperativnoi trgovli; al'bom  
nagliadnykh posobii. Moskva, Izd-vo TSentrosoiuza, 1961. 1 p.  
82 l. (MIRA 16:1)

(Cooperative societies--Audio-visual aids)

"APPROVED FOR RELEASE: 07/19/2001

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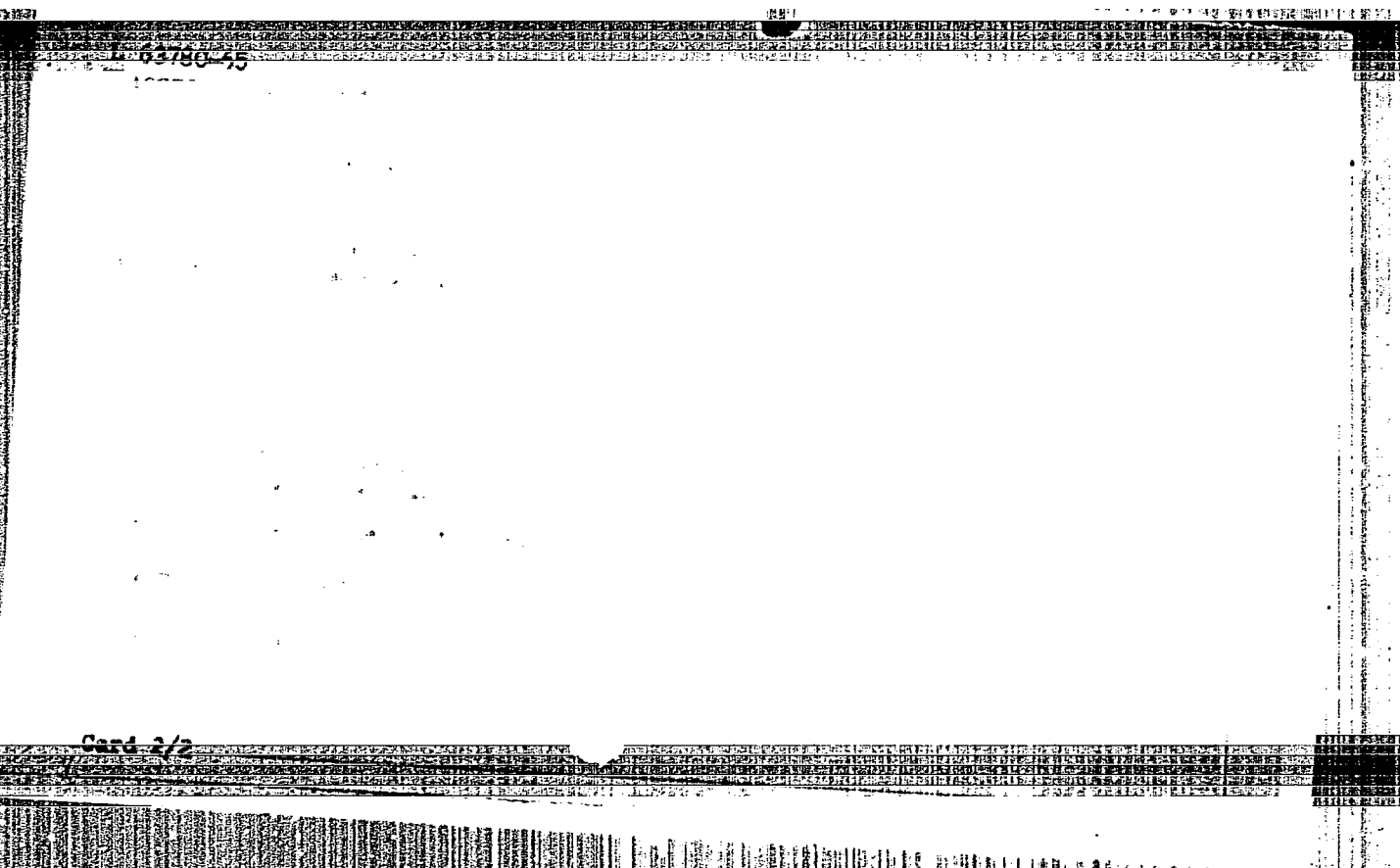
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ZHILOVA, N.A.; KASPAROV, A.A.

Toxicity of the "A-vulkanent" (N-nitrosodiphenylamine). *Kauch. i rez.*  
22 no.1:27-28 *M.*, '63. (MIRA 16/6)

1. Kafedra gigiyehy truda I Moskovskogo ordena Lenina meditsinskogo  
instituta imeni Sechenova.  
(Diphenylamine--Toxicology)  
(Rubber industry workers--Diseases and hygiene)

VOROB'YEVA, R.S.; ZHILOVA, N.A.; KASPAROV, A.A.; MEZENTSEVA, N.Y.

Comparing the toxicity of mercaptobenzimidazole and  
N-phenyl-N-isopropylparaphenylenamine. Kauch.i rez. 22  
no.2:18-19 F '63. (MIRA 16:2)

1. Kafedra gigiyeny truda 1-go Moskovskogo ordena Lenina  
meditsinskogo instituta imeni I.M. Sechenova.  
(BENZIMIDAZOLETHIOL--TOXICOLOGY) (PHENYLENEDIAMINE--TOXICOLOGY)  
(RUBBER INDUSTRY WORKERS--DISEASES AND HYGIENE)

ZHILOVA, N.A.

Problem of the simultaneous action of benzene and acetone vapors on the organism. Gig. i san. 24 no.12:18-23 D '59. (MIRA 13:4)

1. Iz kafedry obshchey gigiyeny I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M. Sechenova.  
(BENZENE toxicol.)  
(ACETONE toxicol.)

ZHILOVA, N. A., Cand Med Sci -- (diss) "Problem of the combined action of benzene and acetone vapors on the organism." Moscow, 1960. 11 pp; (First Moscow Order of Lenin Medical Inst im I. M. Sechenov); 200 copies; price not given; (KL, 17-60, 168)

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KUL'CHITSKIY, Ya.O. [Kul'chyts'kyi, YA.O.]; ZHILOVSKIY, N.I. [Zhylovs'kyi, N.I.];  
DABAGYAN, N.V. [Dabahian, N.V.]; MAKSIMOV, A.V. [Maksimov, O.V.];  
KHLOPONIN, K.L.

Stratigraphy of Paleocene and Eocene eastern Carpathian Mountains [with  
summary in English]. Dop. AN URSR no.3:310-314 '58. (MIRA 11:5)

1. Ukrains'kiy viddil Vsesoyuznogo naukovo-doslidnogo geologo-  
rozviduval'nogo naftovogo institutu. Predstavleno akademikom AN  
USSR O.S. Vyalovym.

(Carpathian Mountains--Geology, Stratigraphic)

CHERNYAK, N.I.; STOLYAR, L.N.; ZHILOVSKIY, N.I.

Materials on the stratigraphy and lithology of Paleogene deposits  
in the central synclinal zone of the Carpathians. Trudy VNIGNI no.12:  
61-68 '58. (MIRA 12:3)  
(Tereblya Valley--Geology, Stratigraphic)



DABAGYAN, N.V.; ZHILOVSKIY, N.I.; KRUGLOV, S.S.

Microfauna and the stratigraphic position of the Shipot and  
Yalovetsk series of the Eastern Carpathians. Trudy UkrNIGRI  
no.5:106-124 '63.

(MIRA 18:3)

ZOTIN, M.I., st. nauchn. sotr.; SEREBRYAKOV, A.V., mlad. nauchn. sotr.; ALPATOVA, T.A., mlad. nauchn. sotr.; SEZEMAN, N.A., mlad. nauchn. sotr.; KRIVONOGOV, M.S.; ZHILOY, M.; PREBYSHEVSKAYA, M.M.; SEDELKOV, V.A., inzh.; MINENKO, V.M., red.

[Hydrology of the estuary region of the Northern Dvina]  
Gidrologiya ust'evoi oblasti Severnoi Dviny. Moskva,  
Gidrometeoizdat, 1965. 375 p. (MIRA 18:8)

1. Moscow. Gosudarstvennyy okeanograficheskiy institut.
2. Gosudarstvennyy okeanograficheskiy institut, Moskva (for Zotin, Serebryakov, Alpatova, Sezeman).
3. Nauchnik gidrokhimicheskoy laboratorii Severnogo upravleniya gidrometeorologicheskoy sluzhby (for Prebyshevskaya).
4. Nauchal'nik Severo-Dvinskoy ust'yevoy stantsii (for Krivonogov).
5. Severo-Dvinskaya ust'yevaya stantsiya (for Sedelkov).

NIKOLAYEV, V.P.; ZHIL'TSOV, A.A.; KAZANSKIY, Yu.A.

Polar radiance meter. Trudy Inst. okoen. 74:55-61 '65.  
(MIRA 18:12)

ZHIL'TSOV, A.A.; KARPMAN, M.I.

Over-all mechanization of the piling of bark. Kozh. obuv.  
prom. 5 no.7:12-14 J1 '63. (MIRA 16:8)

(Tanning materials) (Materials handling)

L 36072-66 ENT(d)/FSS-2/ENT(1) (N)

ACC NR: AT6017054

SOURCE CODE: UR/2566/65/074/000/0082/0084

AUTHOR: Zhil'tsov, A. A.; Nikolayev, V. P.

ORG: none\*

TITLE: Underwater voice communication system

SOURCE: \*AN SSSR. Institut okeanologii. Trudy, v. 74, 1965. Elektronnyye pribory dlya okeanologicheskikh issledovaniy (Electronic instruments for oceanological research), 82-84

TOPIC TAGS: underwater communication, wire communication

ABSTRACT: A wire communication system for voice underwater-surface, surface-underwater communication with divers is described. The system consists of two loudspeakers and a low power, low frequency transistorized amplifier. The diver receives communications from the surface through the loudspeaker and uses the loudspeaker as a microphone for communicating with the surface. The diver can receive and send voice messages when he is within 10 m of the loudspeaker. The comprehensibility of the diver's messages to the surface is diminished by the fact that he must talk through his breathing mouthpiece. The submerged loudspeaker is protected against water pressure by an enclosure filled with castor oil, which reduces the sensitivity of the speaker. The speaker is connected by cable to the amplifier which is located on the surface. The authors sug-

Card 1/2

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ACC NR: AT6017054

gest that a new kind of mouthpiece be developed so as to improve underwater-surface communication and communication among divers working below the surface. Orig. art. has: 3 figures.

SUB CODE: 17,09/ SUBM DATE: none

Card 2/2 ymb

ZHIL'TSOV, A.G.

Geology and petrography of hybrid rocks in the Kenkol pluton.  
Trudy Inst. geol. AN Kir. SSR no.10:25-34 '58.

(MIRA 12:9)

(Kirghiz Range--Rocks, Igneous)

ZHIL'TSOV, A.G.

Development of crustal cores as revealed by the studies in the  
western part of the Kirghiz Range. Izv. AN Kir. SSR. Ser. est. 1  
tekhn. nauk 4 no.3:37-39 '62. (MIRA 15:11)  
(Kirghiz Range--Earth--Surface)



ZHIL'TSOV, A.G.; TUROVSKIY, S.D.

Accessory minerals in rocks of Kenkol pluton. Zap. Kir. otd.  
Vses. min. ob-va no.3:39-47 '62.

(MIRA 17:11)

ZHIL'TSOV, A.G.; SHCHELKOV, Ye.Ye.; BONDARENKO, G.F.

Some accessory elements in the Kenkol intrusive complex.

Zap. Kir. otd. Vses. min. ob-va no.3:49-58 '62.

(MIRA 17:11)

ZHIL'TSOV, A.G.

Erosion level and depth of formation of the Kenkol intrusion.  
Iz. AN Kir. SSR. Ser. est. i tekhn. nauk 3 no.4:97-103 '61.  
(MIRA 14:12)

(Kenkol region--Rocks, Igneous)

ZHIL'TSOV, A.G.

Petrography and certain geological features of granites and  
formations of the Kenkol intrusive. Izv. AN Kir. SSR. Ser.  
est. 1 tekhn. nauk 2 no. 9:57-74 '60. (MIRA 14:7)  
(Kirghizistan-Petrology)

ZHIL'TSOV, A., polkovnik

Battery in a meeting engagement. Voen. vest. 42 no. 1:63-  
65 Mr '63.  
(M/R. 17:1)

2 H I L ' T s o v , A . I .

14(10); 3(5)	PHASE I BOOK EXPLOITATION	50V/2843
	Sovetskuyu po raznochnym sposobam fundamentirovaniya na tekhnicheskuyu gruntakh	
	Trudy... (Transactions of the Conference on Efficient Methods of Building Foundations on Permafrost Soils) Moscow, Gosstroyizdat, 1959. 131 p. Extra slip inserted. 1,500 copies printed.	
	Ed. of Publishing House: N. M. Borshchevskaya; Tech. Ed.: Ye. L. Yankina.	
	PURPOSE: This book is intended for construction engineers, industrial planners and builders.	
	COVERAGE: This book contains reports originally read in Voronezh in 1958 on experience gained in planning and building foundations in permafrost regions of the USSR. The reports were prepared for publication in the NIIOIF (Scientific Research Institute for the Study of Foundations and Underground Structures). The reproductions are given.	
	References are given.	
	Reprints, V. P. Construction Conditions and the Exploitation of Mining Enterprises in the Pechora Coal Basin	47
	Zhilinskaya, A. V. Construction of Industrial Plants on Permanently Frozen Ground With Subsequent Settling	56
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	Fubelintsev, A. M. Special Characteristics of Foundation Building in the City of Igarka	64
	Belozor, S. A., and V. M. Yodanislin. Methods of Restoring the Deformed Principal Buildings in Voronezh	67
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	Yegorov, V. M., and V. M. Sokolova. New Data on Frost Heaving of Foundations	100
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	Kozhanchikov, I. I. Frost Heaving of Ground and Foundations (discussion)	113
	Chukotillo, A. M. Non-Soviet Experience in Building Foundations on Permanently Frozen Ground	119
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	Bovko, I. N. Settling of the Foundations of Industrial Structures of the Voronezhskiy Combine	127
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Grnd 4/4

ZHIL'TSOV, B. A.

Making cylindrical structures from welded sheets. Avtom. svar.  
16 no.3:73-75 Mr '63. (MIRA 16:4)

1. Stavropol'skiy-na-Volge zavod oborudovaniya tsementnoy  
promyshlennosti i tyazhelogo mashinostroyeniya.

(Sheet steel—Welding)  
(Cylinders—Welding)

ZHIL'TSOV, Dmitriy Petrovich; CHERNENKO, G.A., red.; MEMESHKINA,  
L.I., tekhn. red.

[Organization of the administration of socialist enterprises]  
Kak organizovano upravlenie sotsialisticheskimi predpriati-  
iami. Iuzhno-Sakhalinsk, Sakhalinskoe knizhnoe izd-vo, 1961.-29 p.  
(MIRA 15:11)

(Industrial organization)



ZHIL'TSOV, J.

Assembling houses of brick blocks. Stroitel' no.3:24-25  
Mr '60. (MIRA 13:6)

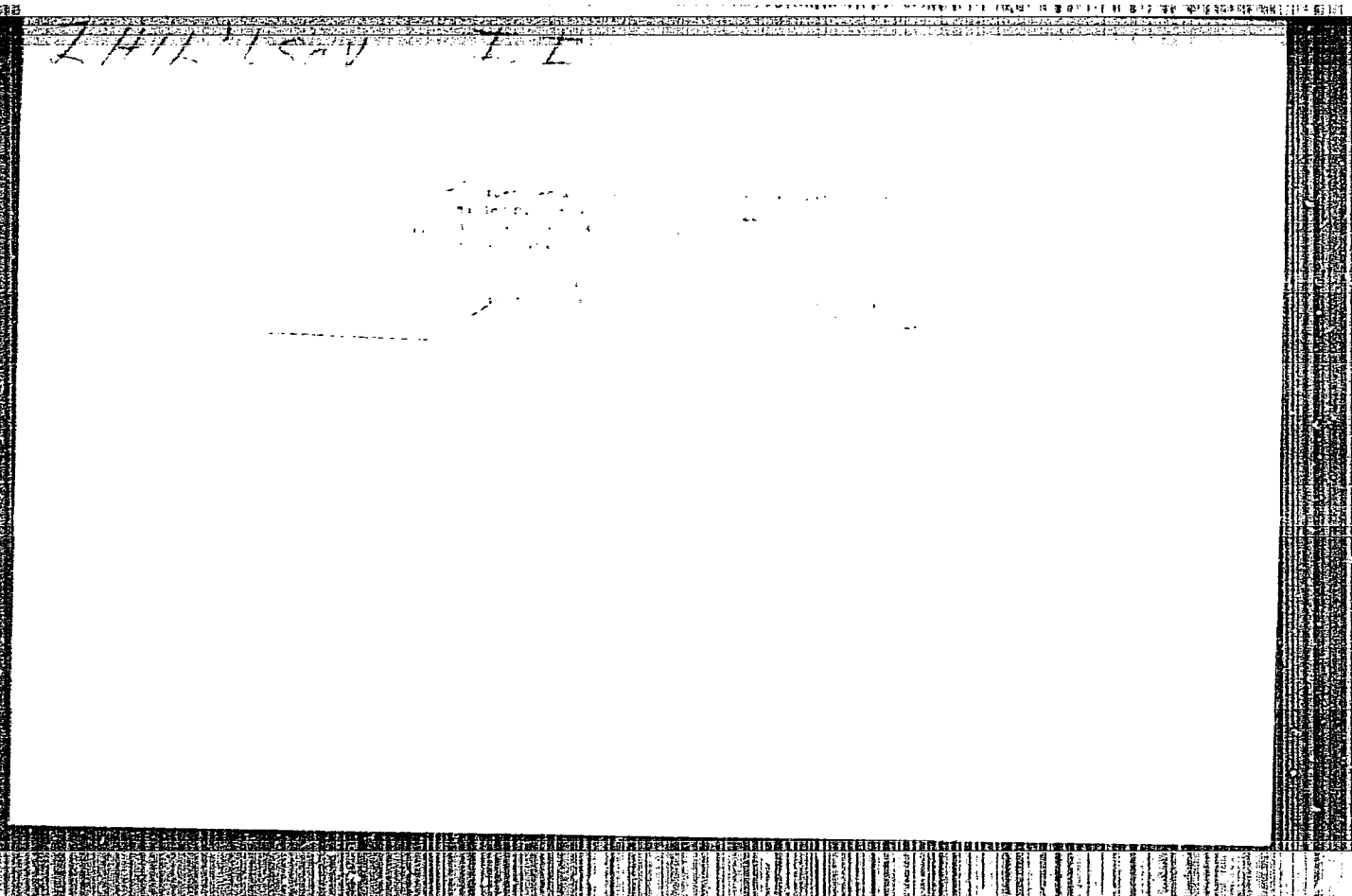
1. Instruktor peredovykh metodov truda Orgstroya Nauchno-  
issledovatel'skogo instituta organizatsii, mekhanizatsii i  
tekhnicheskoy pomoshchi stroitel'stvu.  
(Building blocks)

ZADONTSEV, Vladimir Ivanovich; KORSUNENKO, Anatoliy Afanas'yevich;  
NIKOLAYEV, Boris Nikolayevich; RYKOV, Mikhail Ivanovich;  
ZHIL'TSOV, I.F., kand. med. nauk, retsenzent; GORSHKOV,  
G.V., doktor tekhn. nauk, nauchn. red.; KVOCHKINA, G.P.,  
red.; NIKITINA, M.I., red.

[Dosimetry of radioactive gases and aerosols on ships] Do-  
zimetriia radioaktivnykh gazov i aerorozlei na sudakh. Le-  
ningrad, Sudostroenie, 1965. 202 p. (MIRA 18:4)

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S/196/62/000/014/001/046  
E194/E155

AUTHOR:

Zhil'tsov, I.I.

TITLE:

The kinetic theory of electricity

PERIODICAL:

Referativnyy zhurnal, Elektrotehnika i energetika, no.14, 1962, 5, abstract 14 A 25. (Materialy nauchn. konferentsiy. Izhevskiy s.-kh. in-t, no.8, 1961, 78-82)

TEXT:

The kinetic hypothesis of electricity is considered. The electric charge is a material particle which exists in a condition of active exchange with a surrounding medium of particles of lower order - photons. The most probable velocity of photons relative to the charge during absorption and radiation  $c = 3 \times 10^{10}$  cm/sec. This velocity is geometrically additive with the velocity of the charge. The exchange material forms the electric field of the charge. This photon medium ("ether") has a density not less than  $10^{-8} - 10^{-12}$  g/cm<sup>3</sup>. Motion of a charge in an electric field and the field of a charge moving in a conductor are considered. A formula is derived for the electromagnetic

Card 1/2

The kinetic theory of electricity

S/196/62/000/014/001/046  
E194/E155

force acting on a charge of unit section moving in the field of a current (of the same sign as the charge) in a conductor. This formula includes both the particular and limiting cases of the laws of Biot-Savart, Ampere, Faraday, the Maxwell equations and the Lorentz formula for magnetic force. ✓

[Abstractor's note: Complete translation.]

Card 2/2

ZHIL'TSOV, L., Geroy Sovetskogo Soyuz, kapitan 2 ranga

On an atomic submarine under the ice to the North Pole. Voen. znan.  
41 no.7:6-7 J1 '65. (MIRA 18:7)

ZHIL'TSOV, L., Garoy Sovetskogo Soyuz, kapitan 2-go ranga, komandir  
podvoknoy lodki.

Communists of an atomic ship. Komm.Voeruzh.Sil 3 no.20:38-42  
0'62. (MIRA 15:10)

(Atomic submarines)

KIM, Yu.Kh.; LUK'YANOV, I.A.; YAZYDZHAN, I.N., sadovod; SUL'MENEVA, Ye.M.,  
starshiy tekhnik; ZHILITSOV, M.I., starshiy master; KUZNETSOVA, P.G.,  
inzh.-tekhnolog; ANISKOV, A.T., pirometrist; BELYAKOV, I.P., kalil'-  
shchik; NAUMOV, M.D., kalil'shchik

Let us create winter gardens in industrial plants with high temperatures.  
Zdorov'e 6 no.10:32 0 '60. (MIRA 13:9)

1. Moskovskiy zavod shlifoval'nykh stankov. 2. Glavnyy metallurg  
Moskovskogo zavoda shlifoval'nykh stankov (for Kim). 3. Zaveduyushchiy  
zdravpunktom Moskovskogo zavoda shlifoval'nykh stankov (for Luk'yanov).  
(GREENHOUSES)



EYDENZON, Isaak Borisovich; ZHIL'TSOV, Mikhail Semenovich;  
ZAGORSKIY, G., red.; YAKOVLEVA, Ye., tekhn. red.

[How to convert grain combines for corn harvesting] Kak pereoborudovat' zernovye kombainy dlia uborki kukuruzy. Moskva, Mosk. rabochii, 1961. 30 p. (MIRA 15:7)

1. Glavnyy inzhener Mikhnevskoy Rayonnoy traktornoy stantsii, Msokovskaya oblast' (for Eydenzon). 2. Zaveduyushchiy masterskoy Zvenigorodskoy Lukomeliorativnoy stantsii (for Zhil'tsov).  
(Conr (Maize))--Harvesting  
(Combines (Agricultural machinery))

ZHIL'TSOV, N. I.

"Standardization of Attachments and their Parts at the Automobile Plant imeni Stalin",  
Moscow Automobile Plant imeni Stalin, Stanki i Instrument 10, No. 6, 1939, Engineer.

Report U-1505, 4 Oct 1951.

*Zhil'ISOV, V. A. IY*  
BATAKOV, Aleksandr Tikhonovich; ZHIL'TSOV, Nikolay Ivanovich; LEVSHTEYN,  
Mikhail Iosifovich; MIL'CHIN, A. N., redaktor; ALEKSANDROV, V. I.,  
tekhnicheskiy redaktor; CHIGHERIN, A. N., tekhnicheskiy redaktor

[Principles of building printing machinery] Osnovy poligraficheskogo mashinostroeniia. Moskva, Gos. izd-vo "Iskusstvo," 1956. 263 p.  
(MIRA 9:3)

(Machinery industry) (Printing machinery and supplies)

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